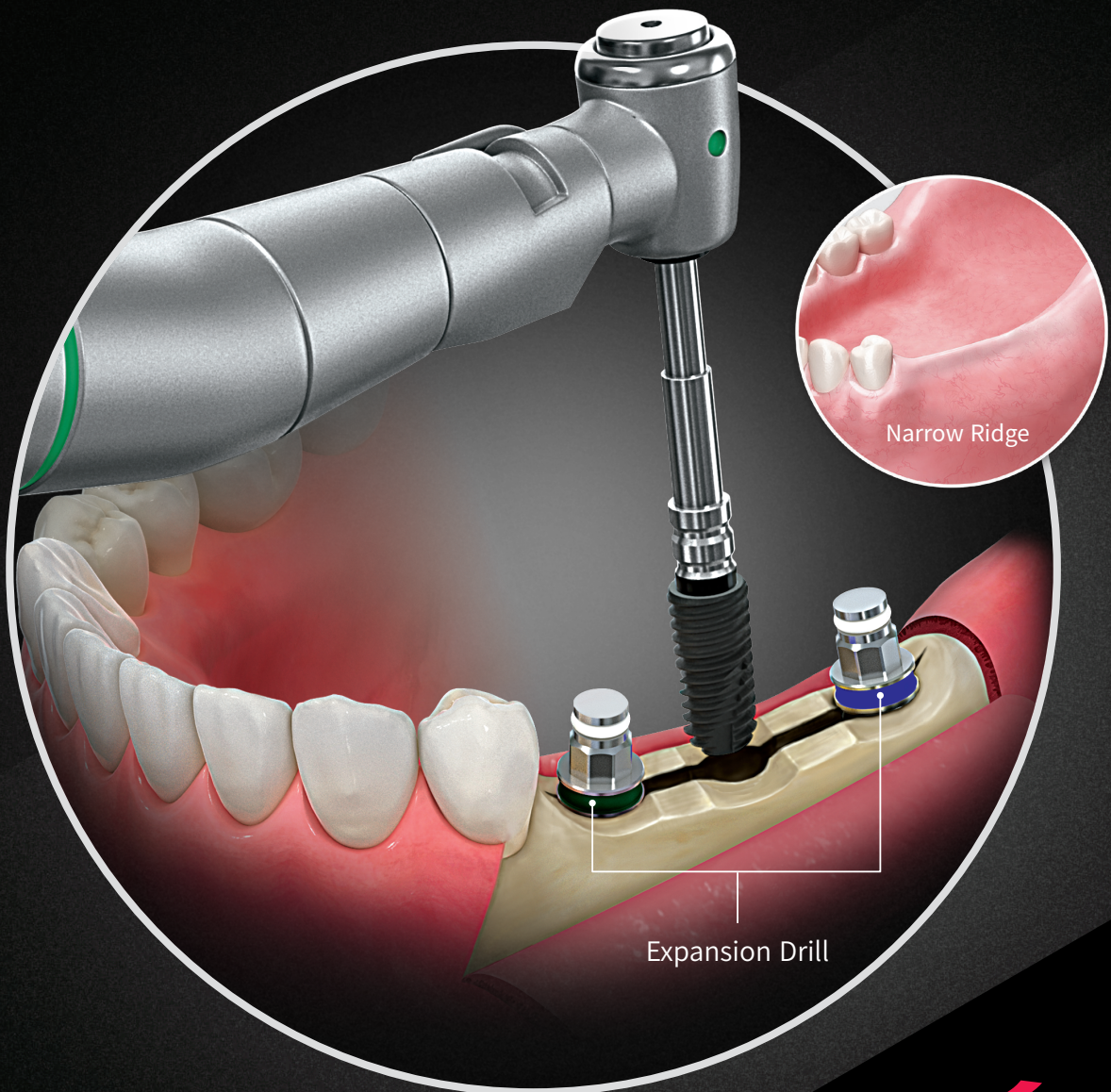Easy Split & Expansion of the Narrow Ridge

ESSET Kit

- Safe expansion and low risk of buccal fracture
- Expansion without splitting
- Secures strong initial stability at Ridge split procedures, allowing immediate loading
- Reduces healing time as a result of the 4 wall defect
- Allows to place Ø4.0, Ø4.5 implants even in narrow ridges

Narrow Ridge

Expansion Drill

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Safer and predictable expansion of the narrow ridge to secure sufficient room for implant placement

- The Expansion Drill expands the split bone by self-tapping and lowers the risk of bone fracture
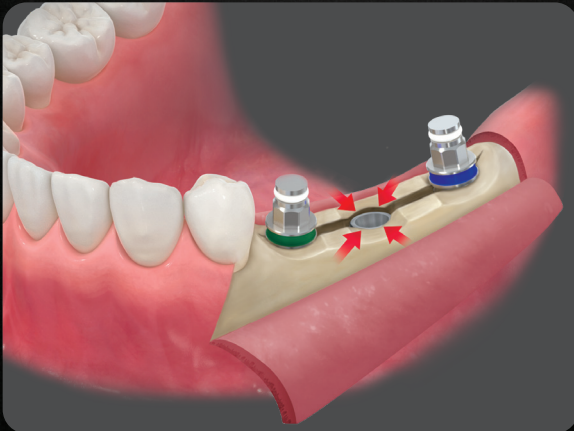- Achieves strong initial stability by using the elasticity of the expanded bone
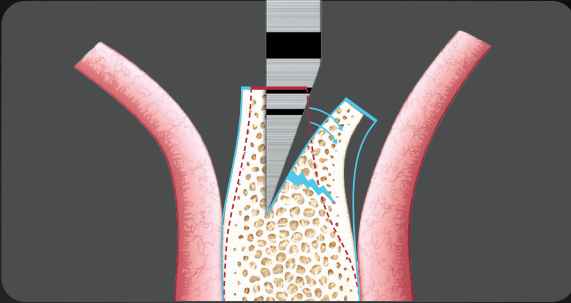
Chisel and Mallet
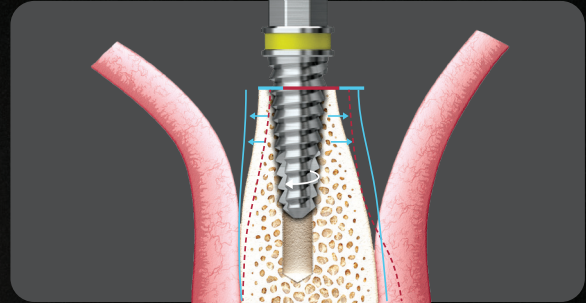
ESSET Kit: Expansion Drill
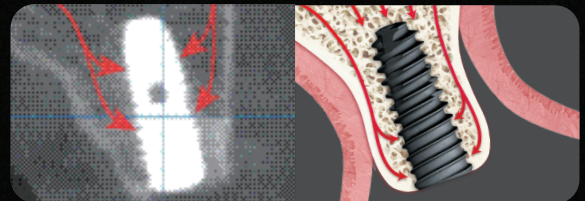
Facilitates blood supply and shortens the healing time

- The ESSET technique can shorten the healing time using the 4-wall defect to secure sufficient stem cell source
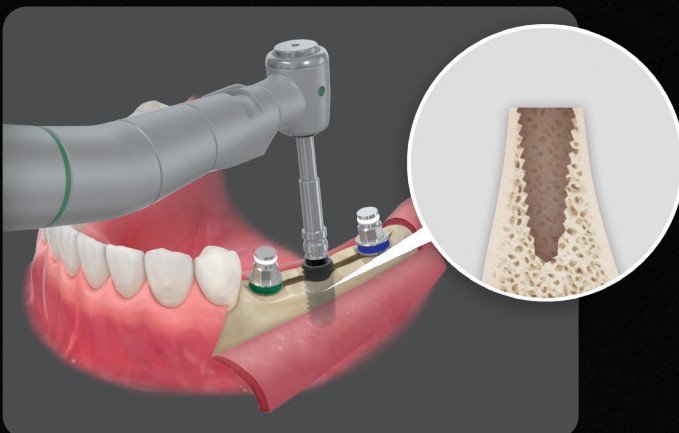- It does not requre additional bone graft or membrane

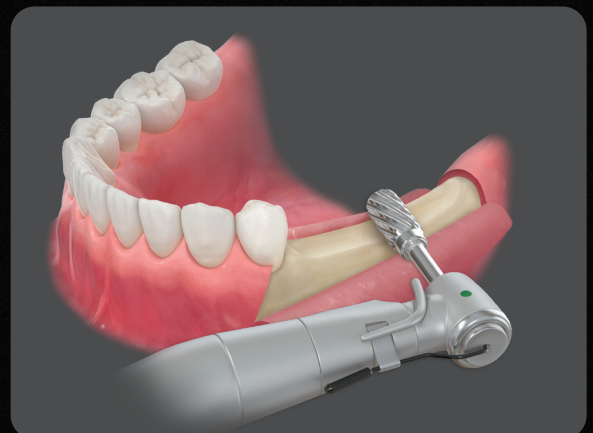General GBR Process

Ridge Split Process

Place implants without excess torque

- Implants can be placed without over-torque because the split bone is expanded and secured with the Expansion Drill

Crest Remover

- The crest remover enables you to gain minimum bone width for surgery
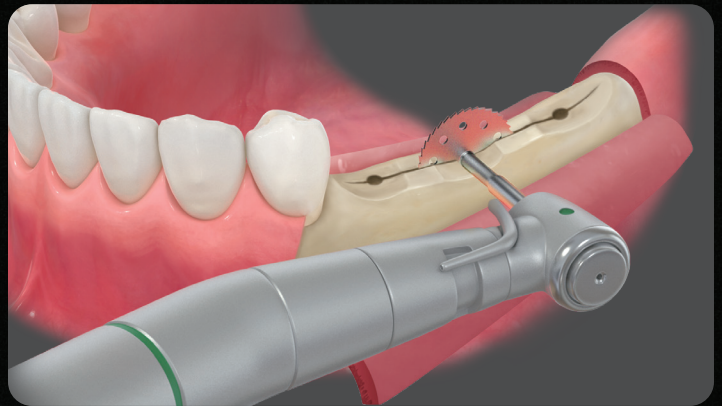- Flattens uneven ridge and prep for implant site

Ridge Split surgery without Chisels and Mallets

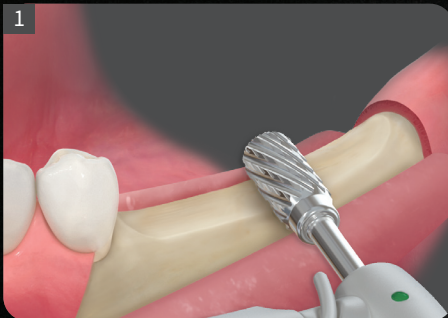• Eliminating the use of a Mallet minimizes patient discomfort
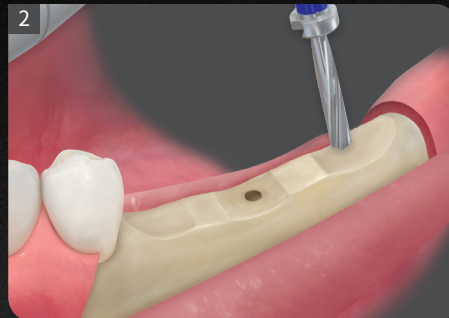

Conventional Ridge Split with Mallet and Chisel

ESSET Kit Ridge Split with Saw

Surgical Sequence

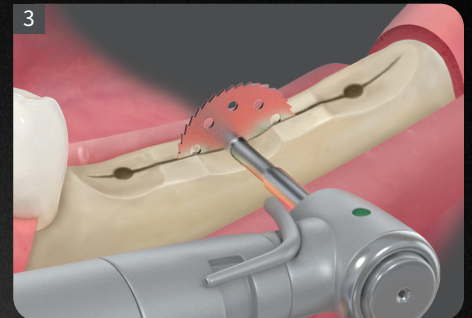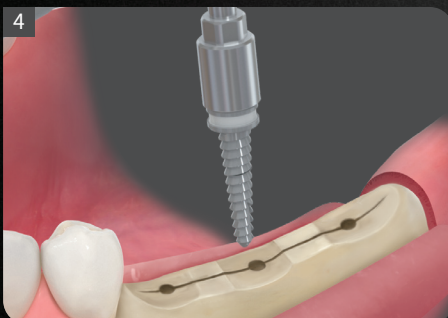**Crest Remover:** Contour Ridge and create Grooves for implant sites
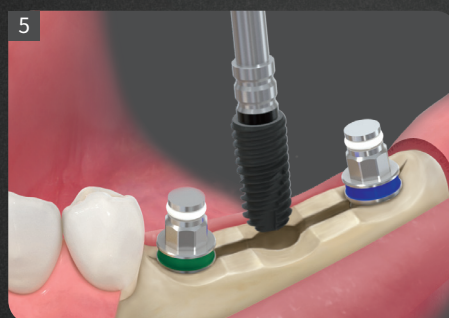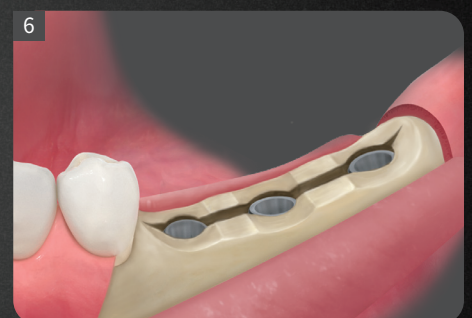

Initial Drilling to define implant positioning

Saw to incise and split ridge
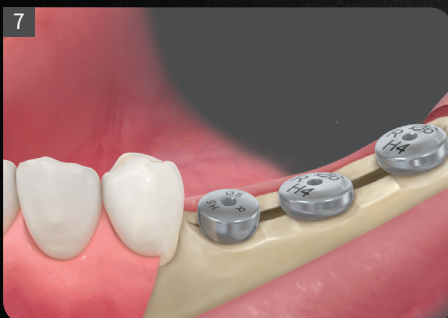

Expansion drill to expand ridge
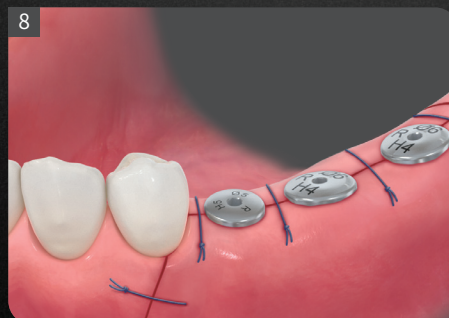

Implant placement into expanded ridge

Complete placement

Engage the Healing Abutment

Suture and complete procedure

For more detailed information about ESSET surgical sequence request the ESSET Kit Manual

ESSET Kit layout and components

ESSET KIT
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① Crest Remover	② Twist Drill Ø1.8	③ Saw
Ø7.0	8.5	Ø7.0
Ø5.0	10	Ø10.0
Ø5.0 (Straight)	11.5	Ø13.0

Dr. B. H. Suh

Expansion Drill

④ I (Ø1.6/2.8)	⑤ II (Ø2.2/3.6)	⑥ III (Ø2.8/4.4)	⑦ IV (Ø3.2/4.7)

④

8.5
10.0
11.5

ESSET KIT Procedure

1▶2▶3▶4▶5▶6▶Ø4.0 Taper Fixture Implanting
1▶2▶3▶4▶5▶6▶7▶Ø4.5 Taper Fixture Implanting

Mount S ⑤	Drivers L ⑤	Mount Extension ⑥	Fixture Driver

1.2 Hex Drivers

Spare	Spare	Spare	Spare
Spare	Spare	Spare	Spare

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① Crest Remover

② Twist Drill

③ Saw

④ Expansion Drill

⑤ EXP Mount Driver

⑥ Mount Extension

⑦ Depth Gauge

OSSTEM IMPLANT   15 13 11.5 10 8.5 7

⑧ Torque Wrench

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